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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751,067	01/05/2004	Ted Chen	FP3001-1114-P-22571	1274
759	01/04/2005		EXAMINER	
TED CHEN			SHARP, JEFFREY ANDREW	
235 Chung - Ho Box 8-24	•		ART UNIT	PAPER NUMBER
Taipei,			3677	
TAIWAN			DATE MAILED: 01/04/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	A == 1! = == 4(=)	
		Application No.	Applicant(s)	2
Office Action Summary		10/751,067	CHEN, TED	
	Omoc Addon Gammary	Examiner	Art Unit	
	The MAIL INC DATE of this communication and	Jeffrey Sharp	3677	
Period fo	 The MAILING DATE of this communication apport Reply 	bears on the cover sheet with the	e correspondence address	
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) o will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDO	timely filed days will be considered timely, om the mailing date of this communic NED (35 U.S.C. § 133).	≿ation.
Status				
1)🖂	Responsive to communication(s) filed on 05 Ja	anuary 2004.		
		s action is non-final.	•	
3)[Since this application is in condition for allowa	nce except for formal matters, p	prosecution as to the merit	ts is
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Disposit	ion of Claims			
4)⊠	Claim(s) 1-5 is/are pending in the application.			
,—	4a) Of the above claim(s) is/are withdra	wn from consideration.		
5)□	Claim(s) is/are allowed.			
· _	Claim(s) 1-5 is/are rejected.			
·	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/o	r election requirement.		
Applicat	ion Papers			
9) 🖂	The specification is objected to by the Examine	or .		
·	The drawing(s) filed on <u>05 January 2004</u> is/are		ed to by the Evaminer	
. ٠٠/ڪ	Applicant may not request that any objection to the	• • • •	· ·	
	Replacement drawing sheet(s) including the correct		• •	21 <i>(</i> d)
11)	The oath or declaration is objected to by the Ex			
	under 35 U.S.C. § 119			
_	Acknowledgment is made of a claim for foreign	priority under 35 H S C - 8 110/	(a) (d) or (f)	
	☐ All b)☐ Some * c)☐ None of:	priority under 55 0.5.6. § 119((a)-(u) or (i).	
/	1. Certified copies of the priority document	s have been received		
	2. Certified copies of the priority document		ation No	
	3. Copies of the certified copies of the prio	• • • • • • • • • • • • • • • • • • • •		•
	application from the International Bureau	•	······································	
* 5	See the attached detailed Office action for a list	` '/'	ved.	
Attachma-	*(a)			
Attachmen	et(s) or of References Cited (PTO-892)	4) 🔲 Interview Summa	ny (DTO 412)	
	ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail		
3) 🔲 Infon	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		Patent Application (PTO-152)	

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DETAILED ACTION

Status of Claims

[1]

Claims 1-5 are pending.

Specification

[2] The disclosure is objected to because of minor grammatical informalities. Some examples are:

The words 'firstly' should be --first-- on page 1 lines 15 and 20.

The word 'ways' should be --methods-- on page 1 line 17.

The word 'loading' on page 2 line 10 should be --bears--.

The word 'react' on page 2 line 23 should be --reactive--.

The words 'is a' should be --comprises-- on page 2 line 24.

The words 'exactly inserts' on page 5 line 6 should be -- fits exactly--.

etc....

Element identifier '500' has been used twice for 'furniture' and for 'embedded object' on page 6.

Appropriate correction and proofreading is required.

Claim Objections

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[3] Claims 1, and 3-5 are objected to because of the following informalities:

Claim 1 recites 'so that the embedded object loading the weight of the load', which is incomprehensible.

In claim 3, 'extends' on line 5 should be --extending--, and 'vertically' on line 4 should be --vertical--. It further appears the Applicant may have meant --towards-- instead of 'to' on line 6. There is also insufficient antecedent basis for 'the bottom' in line 7. Term 'react' on line 10 should be --reactive-- and the word --the-- should appear before 'annular surface' on line 9

Claim 4, 'is' should be --comprises-- on line 2. The semicolon on line 5 should be a comma.

Claim 5, the semicolon on line 5 should be a comma.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- [4] The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- [5] Claims 1 and 3-5 rejected under 35 U.S.C. 103(a) as being unpatentable over Gartside US-573,970 in view of Flogaus US-2,470,924.

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Gartside teaches a combining device comprising an embedding unit (E), and a hollow coupling unit (G). The embedding unit (E) is to be embedded into an object (A).

However, Gartside fails to disclose expressly elastic buckling means on the second end (F) of the embedding unit (E).

Flogaus teaches elastic buckling means (9,11,12) at the end of an embedding unit (1).

The embedding unit taught by Flogaus has a first end (8,13) that is to be embedded into an object

(4). See Figure 5.

At the time of invention, it would have been obvious to one of ordinary skill in the art to modify the embedding unit (E) taught by Gartside, to comprise the elastic buckling means (9,11,12) taught by Flogaus, in order to provide improved resilient coupling means for joining the two parts of the combining device, regardless of tolerances. In other words, by giving elastic means to the second end (F) of the embedding unit (E) taught by Gartside, the second end (F) could be secured in hollow coupling units (G) having variations and fluctuations in channel diameter.

As for claim 3, Gartside teaches tapered rings on the outer surface of the embedding unit. Tapered rings for frictional fit in combining devices are common in the prior art, as shown in: US-4,681,477, US-5,131,783, US-6,176,662, US-2,279,955, US-2,279,956, US-3,883,258, and US-3,349,649. Gartside does not teach away from any particular ring structure.

As for claims 4 and 5, the second end comprises 2 sets of biforked posts arranged oppositely. The front end has a plurality of hooks (11) that 'will be' buckled in the channel of the hollow coupling unit. Note that it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed

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apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham, 2 USPQ 1647 (1987)*. See also, MPEP 2144.04 'Duplication of Parts', US-3,736,834, US-6,394,806 (Figures 8 and 9), US-1,056,452, US-5,782,918 (Figures 3 and 4), and US-4,449,877 (Figures 5-8).

[6] Claim 2 rejected under 35 U.S.C. 103(a) as being unpatentable over Gartside v. Flogaus as discussed above, in further view of Nemecek US-4,341,487, Roberts US-2,100,873, or Houk US-2,384,918.

Gartside v. Flogaus teaches all of the limitations of claim 1 as discussed above.

However, Gartside v. Flogaus fails to disclose expressly a sliding sleeve on the embedding unit.

Nemecek, Roberts, and Houk teach sliding sleeves on combining devices (e.g., 'dowels') for the general purpose of eliminating the need to control tolerances between the male second end and the channel of the hollow coupling unit.

At the time of invention, it would have been obvious to one of ordinary skill in the art to modify the coupling device taught by Gartside v. Flogaus, to comprise a sliding sleeve as suggested by either Nemecek, Roberts, or Houk, in order to allow for variations in tolerance between the male (second end of the embedding unit) and female (channel of the hollow coupling unit) components. Sliding sleeves are commonly used as tolerance-compensating friction components, and are seen on couplings such as banana plugs for electrical connectors and corregated split tolerance rings for bearing press-fits. See also, US-3,227,030 and US-4,327,947, which similarly teach sleeve members that span between male and female members to

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provide frictional engagement between the two, but are configured to 'not be so tight', allowing 'removeability' or 'temporary' holding.

Conclusion

[7] The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is as follows:

US-6,517,543 Berrevoets et al. teach a two-part combining device with internal means for securing.

US-3,115,804 Johnson teaches biforked means for engaging a channel.

US-6,561,846 D'Addario teaches banana plug connectors comprising a sleeve-like member that provides a similar 'slipping' or 'reduced friction' connection with a channel.

US-4,830,536 Birch et al. (Figures 13-15) teach four elastic buckling posts that engage a channel of a hollow coupling unit, pertinent to claim 5.

US-1,374,713 Bell teaches a biforked second end (12) comprising hooks that engage the channel of a hollow coupling unit (5).

[8] Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey Sharp whose telephone number is (703) 305-0426. The examiner can normally be reached on 7:30 am - 5:00 pm Mon-Fri.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J.J. Swann can be reached on (703) 306-4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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